District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	to the appropriate NMOCD District Office.
	t, Below-Grade Tank, or Method Permit or Closure	Plan Application
☐ Closure of a pit,☐ Modification to a	proposed alternative method below-grade tank, or proposed alterna an existing permit/or registration	ative method or non-permitted pit, below-grade tank,
Instructions: Please submit one applicate	on (Form C-144) per individual pit, belo	w-grade tank or alternative request
Please be advised that approval of this request does not relieve the environment. Nor does approval relieve the operator of its respon		
Operator: _Enduring Resources, LLC	OGRID #:	372286 SED
Address: _332 Road 3100, Aztec, New Mexico 87410		27 2010
Facility or well name: Rincon Unit 80		STRICT
API Number: <u>30-039-07086</u>	OCD Permit Number:	
U/L or Qtr/Qtr B Section 18 Tov	vnship <u>27N</u> Range <u>6W</u>	County: Rio Arriba
Center of Proposed Design: Latitude <u>36.5781767</u>	Longitude107.5	05367NAD83
Surface Owner: Federal State Private Tribal Tr	ust or Indian Allotment	
2. Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A M Lined Unlined Liner type: Thickness n String-Reinforced Liner Seams: Welded Factory Other	nil	Low Chloride Drilling Fluid yes no
3.		
Below-grade tank: Subsection I of 19.15.17.11 NMAG		
Volume: 45 bbl Type of fluid:	Produced Water	
Tank Construction material: Steel		
Secondary containment with leak detection Visible	sidewalls, liner, 6-inch lift and automatic	overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only [Other	
Liner type: Thicknessmil	PE PVC Other	
4. Alternative Method: Submittal of an exception request is required. Exceptions methods.	ust be submitted to the Santa Fe Environn	nental Bureau office for consideration of approval.
5.		
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to p		
Chain link, six feet in height, two strands of barbed wire	at top (Required if located within 1000 fee	t of a permanent residence, school, hospital,

Four foot height, four strands of barbed wire evenly spaced between one and four feet

institution or church)

Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)				
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC				
National Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: □ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. □ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.				
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.	otable source			
General siting				
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No			
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No			
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No			
Below Grade Tanks				
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No			
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site				
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)				
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No			
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No			
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 				
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No			

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Permanent Pit or Multi-Well Fluid Management Pit Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within	Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site					
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Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Permanent Pit or Multi-Well Fluid Management Pit Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site, Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within	or playa lake (measured from the ordinary high-water mark).	☐ Yes ☐ No				
watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Permanent Pit or Multi-Well Fluid Management Pit Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application Visual inspection (certification) of the proposed site; Acrial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist; Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the appropriate requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the appropriate requirements of 19.15.17.12		☐ Yes ☐ No				
Permanent Pit or Multi-Well Fluid Management Pit Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site "Yes Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number: Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, t	watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;	Yes No				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appro	THE PROPERTY STORY OF STREET AND STREET STORY OF STREET STREET	☐ Yes ☐ No				
lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the requirements of 19.15.17.11 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.19 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.19 NMAC Design Plan - based upon	Permanent Pit or Multi-Well Fluid Management Pit					
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Identification of the proposed site Yes Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Identification and Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Identification and Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Identification and Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Identification and Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Identification and Identification map; Visual inspection Identification of Plassection B of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appr	lake (measured from the ordinary high-water mark).	☐ Yes ☐ No				
initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes		☐ Yes ☐ No				
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes	initial application.	☐ Yes ☐ No				
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMA and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:		☐ Yes ☐ No				
II. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC					
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC						
Previously Approved Design (attach copy of design) API Number: or Permit Number:	Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC					

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are			
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.				
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F. Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit			
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a	attached to the			
closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	mucheu to me			
15.				
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.				
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells \[\sum_{NA} \] Yes \sum_{NA} \]				
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image				
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site				
Written confirmation or verification from the municipality; Written approval obtained from the municipality Yes \[\] No				
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
Yes ☐ No Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance				

	☐ Yes ☐ No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division							
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological							
Society; Topographic map	☐ Yes ☐ No						
Within a 100-year floodplain FEMA map	☐ Yes ☐ No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
17. Operator Application Certification:							
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ief.						
Name (Print): Title:							
Signature: Date:							
e-mail address: Telephone:							
c-mail addressreleptione							
18. OCD Approval: Permit Application (including clasure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	26/16						
18. OCD Approval: Permit Application (including clasure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	26/16						
18. OCD Approval: Permit Application (including clasure plan) Closure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.						
18. OCD Approval: Permit Application fucluding closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	the closure report.						
18. OCD Approval: Permit Application (including clasure plan) Closure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.						

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closur belief. I also certify that the closure complies with all applicable closure requir	
Name (Print): Chad Snell	Title: HSE TECH
Signature:	Date:9/25/2018
e-mail address:csnell@enduringresources.com	Telephone: <u>505-444-0586</u>

Enduring Resources, LLC Below Grade Tank Closure Report

Lease Name: Rincon Unit #80 API No.: 30-039-07086

Description: Unit B, Section 18, Township 27N, Range 6W, Rio Arriba County

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on Enduring Resources, LLC. (Enduring) locations. This is Enduring's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

1. Enduring will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

Closure Date is July 30, 2018

- 2. Enduring will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.

 Closure Date is July 30, 2018
- 3. Enduring will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.

Required C-144 Form is attached to this document.

4. Enduring will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B
Soil contaminated by exempt petroleum hydrocarbons
Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005

Produced water

All liquids and sludge were removed from the tank prior to closure activities.

5. Enduring will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
Enduring has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.

6. Enduring will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

This location is still in production. All other on-site equipment will be utilized in the continued production of oil and gas.

7. Enduring will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 8015M or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 9056A or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. Enduring will notify the division of its results on form C-141.

A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Sampling was witness by Cory Smith, NMOCD Aztec.

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	< 0.000586 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.011086
ТРН	EPA SW-846 8015M	100	< 55.63 mg/kg
Chlorides	EPA 9056A	250 or background	59.5 mg/kg

8. If Enduring or the division determines that a release has occurred, Enduring will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.

Release had occurred due to a leak formed in the bottom allowing some residual water to be released. Approximately 3CY of impacted soil was removed and a sample was collected. Returned samples are below the closure requirements for this location.

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, Enduring will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.

The site has been backfilled, and will be recontoured and revegetated upon P&A of the wellsite.

- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

Notification was provided to Mr. Cory Smith with the Aztec office of the OCD via email on July 23, 2018; see attached email printout.

The surface owner shall be notified of Enduring's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

The BLM was notified on July 23, 2018 via email; see attached email printout.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

This site will be recontoured and revegitated once plugging and abandoning activities have been completed. The site will be recontoured to match the above mentioned specifications.

12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The area has been backfilled to match these specifications.

13. Enduring will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

The site will be re-seeded per the BLM specifications once plugging and abandoning activities have been completed.

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - Proof of closure notice to division and surface owner; attached
 - Details on capping and covering, where applicable; per OCD Specifications
 - Confirmation sampling analytical results; attached
 - Disposal facility name(s) and permit number(s); attached
 - Soil backfilling and cover installation; per OCD Specifications
 - Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **pursuant to BLM Specifications**
 - Photo documentation of the site reclamation, attached



Enduring Resources, LLC BGT Closure Report Rincon Unit 80 30-039-07086

PHOTOS: Area Back Filled and New Pit Set





James McDaniel

From: James McDaniel

Sent: Monday, July 23, 2018 5:01 PM

To: 'Smith, Cory, EMNRD'; Fields, Vanessa, EMNRD

Cc: 'Thomas, Leigh'; Chad Snell

Subject: Rincon Unit 57 and 80 BGT Closures

Too all concerned parties,

Please accept the following email as the required notification for BGT closure activities being performed on the following well sites:

Rincon 57 - API 30-039-06732

Section 1, Township 26N, Range 7W, Rio Arriva County, NM

Rincon 80 - API 30-039-07086

Section 18, Township 27N, Range 6W, Rio Arriba County, NM

Both pits are being closed for maintenance upgrades.

Closure activities will be performed on Monday, July 30th at 9:00 AM at the Rincon 57, then the crew will mobilize to the Rincon 80 immediately following sampling at the Rincon 57. Thank you for your time in regards to this matter.

James McDaniel HSE Supervisor Enduring Resources CSP #30009 CHMM #15676 Office: 505-636-9731

Office: 505-636-9731 Cell: 505-444-3004

jmcdaniel@enduringresources.com



Mr. Cory Smith
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, New Mexico 87410
Email: cory.smith@state.nm.us
Phone (505) 334-6178 Ext 115

Re: Variance Request for 19.15.17 NMAC Table I and Table II

Mr. Smith,

Please accept this letter as a variance request as outlined in 19.15.17.15(A) NMAC. Enduring Resources, LLC (Enduring) would like to request the replacement of USEPA Method 418.1 for the analysis of Total Petroleum Hydrocarbons (TPH) for USEPA Method 8015M, measuring carbon ranges C6-C36, for all sampling associated with closures and confirmations samples in relation to 19.15.17 NMAC, both in Table I and Table II (2103) and the 'pit rule' passed in 2008. Enduring is requesting this variance on the grounds that USEPA Method 418.1 is an outdated analytical method that reports a full range of hydrocarbons from C5 through C40 (*Reference: American Petroleum Institute*).

The attached table demonstrates the carbon ranges, and the typical hydrocarbon products that can be found in those ranges. As you can see, lube oil ranges from C28-C35. Analytical Method USEPA 418.1 extends past lube oils from C35 through C40. This range of hydrocarbons is above the range that can reasonably be expected to be found in our field in both drilling pits and beneath below grade tanks. USEPA Method 8015M (GRO/DRO + extended analysis) will report hydrocarbons ranging from C6-C10 for GRO, C10- C28 for DRO, and C28-C36 for extended analysis. This information was provided by Environmental Science Corporation Laboratories. As the information demonstrates, the 8015M analytical method reports as low as C6, reporting lower than USEPA Method 418.1. Utilizing analytical method 8015M, lighter range hydrocarbons will be reported instead of higher range, heavy hydrocarbons that may not be reasonably expected to be found in our field. Utilization of USEPA Method 8015M will better protect groundwater resources by identifying lighter, more mobile hydrocarbons that USEPA Method 418.1 cannot identify. The heavier range hydrocarbons, C36-C40, that are not identified by USEPA Method 8015M are not a mobile form of hydrocarbon, and are not a threat to human health and the environment. With your acceptance of this variance request, Enduring Resources will begin utilizing USEPA Method 8015M in place of USEPA Method 418.1 for all sampling activities associated with 19.15.17 NMAC, both from the rules passed in 2008 and 2013.

Respectfully Submitted, James McDaniel, CHMM #15676 HSE Supervisor Enduring Resources, LLC

Carbon Ranges of Typical Hydrocarbons

Hydrocarbon Carbon Range
Condensate C2-C12
Aromatics C5-C7
Gasoline C7-C11
Kerosene C6-C16
Diesel Fuel C8-C21
Fuel Oil #1 C9-C16
Fuel Oil #2 C11-C20
Heating Oil C14-C20
Lube Oil C28-C35



ENDURING RESOURCES

ON-SITE FORM

Well Name Rinco	on unit 80.	API#	30-039	-070%				
Section 18	Township 27/ Range	6 U County R	io Arcia	State VV				
Contractors On-Site 132 Time On-Site 10: 30 an Time Off-Site 11: 40 an								
Spill Amount bbls Spilled (Oil/Produced Water/Other) Recovered								
Land Use (Range / Re	esidential / Tribe) Spill Areax	x	PRODUCTION OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE				
958BL 86 958BL 86 958BL 86 1000) 1000								
Site Diagram 5. BB4	. Scared 6 n. ha	Some liquid on T	Sample Loca					
95BBL	School Ginch to	Sancie						
Comments Con	Smith old ve	s on site.						
Samples								
Time Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested				
NA	100 Standard	NA		NA				
11:05 1	95 BGT Botton	Sand, Some Color.		3021, 8015, Chlosides				
11'30cm Z.	SBB BOT Botton	Sand Stone		11				
			-					
Name (Print)/ha	ad Snell	Company Endur	Date_8-/-	18 mares				

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Tankl

Form C-141 Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action												
					OPERATOR Initial Report Final R				nal Report			
		nduring Re				Contact: Chad Snell						
		100, Aztec, N	New Mex	ico 87410			No.: 505-444-05					
Facility Nar	ne: Rinco	n Unit 80]	Facility Typ	e: Well Site (G	as)				
Surface Ow	ner: BLM	/Federal		Mineral O	wner: I	BLM/Feder	al		API No	. 30-039-070	86	
				LOCA	TION	OF REI	LEASE					
Unit Letter B	Section 18	Township 27N	Range 6W	Feet from the 1090		South Line ORTH	Feet from the 1840		est Line ast	County Rio Arriba		
		Latitu	de <u>36</u>	5.5781767	_ Lon	gitude	-107.505367		NAD83			
				NAT	URE	OF REL	EASE					
Type of Rele							Release: UNK			ecovered: NA		
Source of Re	lease: BGT	Bottom				Date and F 7/30/2018	lour of Occurrenc	ce:	Date and	Hour of Disco	very: 7/3	0/2018
Was Immedia	ate Notice (Yes [] No 🛛 Not Re	quired	If YES, To	Whom?			1		
By Whom?						Date and F	lour					
Was a Watercourse Reached? ☐ Yes ☐ No ☐ If YES, Volume Impacting the Watercourse.												
If a Watercou		pacted, Descr	ibe Fully.'	*					· ·	PICA	20%	
		em and Reme		n Taken.* oticed once pit w	as remo	oved. Confir	ming a release ha	ad occur		1		
		and Cleanup		cen.*								
I hereby certi regulations a public health should their of or the environ	fy that the all operators or the environment. In a	are required t ronment. The nave failed to	ven above o report and acceptant adequately OCD accep	e is true and complete is true and complete is true and complete certain rece of a C-141 report investigate and restance of a C-141 report investigate and	elease nort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thre	ctive action Report" do reat to gro	ons for rele bes not reli ound water	eases which meve the operator, surface water	ay endan or of liab r, human	iger pility health
5					OIL CONSERVATION DIVISION							
Printed Name: Chad Snell					Approved by Environmental Specialist:							
Title: HSE T	ech					Approval Date: Expiration		xpiration l	n Date:			
E-mail Addre	ess: csnell@	enduringres	ources.co	m		Conditions of Approval:						
Date: 9/25	2018		Phone	: 505-444-0586								



ANALYTICAL REPORT

August 08, 2018

Enduring Resources

Sample Delivery Group:

L1014209

Samples Received:

08/02/2018

Project Number:

Description:

BGT Closure

Site:

RINCON UNIT 80

Report To:

James McDaniel

332 County Road 3100

Aztec, NM 87410

Entire Report Reviewed By:

Olivia Studebaker

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.



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95 BBL BGT BOTTOM L1014209-02	6	Cn
Qc: Quality Control Summary	7	5 Sr
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SAMPLE SUMMARY

ONE LAB, NATIONWIDE.

MAN VIE
200
ALC: U
-

5BBL BGT BOTTOM L1014209-01 Solid			Chad Srell	08/01/18 TI:30	08/02/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1148414	1	08/07/18 12:38	08/07/18 12:50	JD
Wet Chemistry by Method 9056A	WG1147229	1	08/03/18 11:30	08/03/18 20:18	MCG
Volatile Organic Compounds (GC) by Method 8015/8021	WG1147621	11	08/02/18 19:54	08/06/18 12:21	BMB
Semi-Volatile Organic Compounds ((GC) by Method 8015	WG1147714	1	08/04/18 10:13	08/04/18 18:06	AAT
			Collected by	Collected date/time	Received date/time
95 BBL BGT BOTTOM L1014209-02 Solid			Chad Srell	08/01/18 11:05	08/02/18 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1148414	1	08/07/18 12:38	08/07/18 12:50	JD
Wet Chemistry by Method 9056A	WG1147229	1	08/03/18 11:30	08/03/18 20:36	MCG
Volatile Organic Compounds (GC) by Method 8015/8021	WG1147160	1	08/02/18 19:54	08/03/18 20:02	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1147714	1	08/04/18 10:13	08/04/18 18:19	AAT



















CASE NARRATIVE



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Cp















Olivia Studebaker Project Manager

L1014209

08/08/18/15:35

Enduring Resources

5BBL BGT BOTTOM Collected date/time: 08/01/18 11:30

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

L1014209

Total Solids by Method 2540 G-2011

4						
	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	(O/ /ID			date / time		
Total Solids	89.2		1	08/07/2018 12:50	WG7148414	



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	53.3		11.2	1	08/03/2018 20:18	WG1147229



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
Benzene	0.00100		0.000561	1	08/06/2018 12:21	WG1147621	
Toluene	ND		0.00561	1	08/06/2018 12:21	WG1147621	
Ethylbenzene	ND		0.000561	1	08/06/2018 12:21	WG1147621	
Total Xylene	ND		0.00168	1	08/06/2018 12:21	WG1147621	
TPH (GC/FID) Low Fraction	0.138		0.112	1	08/06/2018 12:21	WG1147621	
(S) a,a,a-Trifluorotoluene(FID)	81.0		77.0-120		08/06/2018 12:21	WG1147621	
(S) a,a,a-Trifluorotoluene(PID)	84.3		75.0-128		08/06/2018 12:21	WG1147621	







Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	29.2		4.49	1	08/04/2018 18:06	WG1147714
C28-C40 Oil Range	69.8		4.49	1	08/04/2018 18:06	WG1147714
(S) o-Terphenyl	80.3		18.0-148		08/04/2018 18:06	WG1147714

95 BBL BGT BOTTOM Collected date/time: 08/01/18 11:05

SAMPLE RESULTS - 02

OTNE LAB. NATIONWIDE.

L1014209

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	20/			date // time	
Total Solids	85.3		1	08/07/2018 12:50	WGT148414



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	59.5		11.7	1	08/03/2018 20:36	WG1147229



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000586	1	08/03/2018 20:02	WG1147160
Toluene	ND		0.00586	1	08/03/2018 20:02	WG1147160
Ethylbenzene	ND		0.000586	1	08/03/2018 20:02	WG1147160
Total Xylene	0.0105		0.00176	1	08/03/2018 20:02	WG1147160
TPH (GC/FID) Low Fraction	2.73		0.117	1	08/03/2018 20:02	WG1147160
(S) a,a,a-Trifluorotoluene(FID)	97.0		77.0-120		08/03/2018 20:02	WG1147160
(S) a,a,a-Trifluorotoluene(PID)	96.3		75.0-128		08/03/2018 20:02	WG1147160



⁸A1

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
C10-C28 Diesel Range	16.4		4.69	1	08/04/2018 18:19	WG1147714	
C28-C40 Oil Range	36.5		4.69	1	08/04/2018 18:19	WG1147714	
(S) o-Terphenyl	56.3		18.0-148		08/04/2018 18:19	WG1147714	

WG1148414

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1014209-01,02

Total Solids by Method 2540 G-2011 Method Blank (MB)

(MB) R3331783-1 08/07/18 12:50

MB Result MB Qualifier MB MDL MB RDL

Analyte % % %

Total Solids 0.00100

L1014247-01 Original Sample (OS) • Duplicate (DUP)

(QS) L1014247-01 08/07/18 12:50 • (DUP) R3331783-3 08/07/18 12:50

 Original Result
 DUP Result
 Dilution
 DUP RPD
 DUP Qualifier
 DUP RPD Limits

 %
 %
 %
 %
 %
 10

 82.8
 81.7
 1
 1.31
 10
 10

Laboratory Control Sample (LCS)

(LCS) R3331783-2 08/07/18 12:50

Analyte

Total Solids

Total Solids 50.0 50.0 100 85.0-115



















WG1147229

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Wet Chemistry by Method 9056A

L1014209-01,02

Method Blank (MB)

Analyte

Chloride

Analyte

Chloride

(MB) R3330948-1 08/03/18 19:00

MB Result MB Qualifier MB MDL MB RDL mg/kg mg/kg ma/ka U 0.795 10.0





SS

L1014209-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1014209-01 08/03/18 20:18 • (DUP) R3330948-6 08/03/18 20:27

Original Result DUP Result DUP RPD Dilution DUP RPD **DUP Qualifier** (dry) (dry) Limits mg/kg mg/kg % 53.3 55.5 4.11 15



SI

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3330948-2 08/03/18 19:09 • (LCSD) R3330948-3 08/03/18 19:17

Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits LCS Qualifier LCSD Qualifier **RPD Limits** Analyte % % % mg/kg mg/kg mg/kg % % Chloride 200 205 204 102 102 15 80.0-120 0.422





L1014207-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1014207-01 08/03/18 19:52 • (MS) R3330948-4 08/03/18 20:01 • (MSD) R3330948-5 08/03/18 20:10

,00,10000000000000000000000000000000000	Spike Amount (dry)			,	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	588	251	844	793	101	92.3	1	80.0-120			6.19	15



QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE:

Volatile Organic Compounds (GC) by Method 8015/8021

L1014209-02

Method Blank (MB)

(MB) R3330928-5 08/03	/18 13:26			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000247	<u>J</u>	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	IJ		0.0217	0.100
(\$) a,a,a-Trifluorotoluene(FID)	100			77.0-120
(\$) a,a,a-Trifluorotoluene(PID)	100			75.0-128











Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

/18 11:27 • (LCSC) R3330928-2	08/03/18 11:51	1					
Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD
mg/kg	mg/kg	mg/kg	%	%	%			%
0.0500	0.0532	0.0538	106	108	71.0-121			1.05
0.0500	0.0514	0.0515	103	103	72.0-120			0.165
0.0500	0.0533	0.0535	107	107	76.0-121			0.525
0.150	0.168	0.167	112	111	75.0-124			0.778
			100	100	77.0-120			
			98.6	99.3	75.0-128			
	Spike Amount mg/kg 0.0500 0.0500 0.0500	Spike Amount LCS Result mg/kg mg/kg 0.0500 0.0532 0.0500 0.0514 0.0500 0.0533	Spike Amount LCS Result LCSD Result mg/kg mg/kg mg/kg 0.0500 0.0532 0.0538 0.0500 0.0514 0.0515 0.0500 0.0533 0.0535	mg/kg mg/kg mg/kg % 0.0500 0.0532 0.0538 106 0.0500 0.0514 0.0515 103 0.0500 0.0533 0.0535 107 0.150 0.168 0.167 112	Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. mg/kg mg/kg % % 0.0500 0.0532 0.0538 106 108 0.0500 0.0514 0.0515 103 103 0.0500 0.0533 0.0535 107 107 0.150 0.168 0.167 112 111 100 100	Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits mg/kg mg/kg % % % 0.0500 0.0532 0.0538 106 108 71.0-121 0.0500 0.0514 0.0515 103 103 72.0-120 0.0500 0.0533 0.0535 107 107 76.0-121 0.150 0.168 0.167 112 111 75.0-124 100 100 77.0-120	Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits LCS Qualifier mg/kg mg/kg % % % % 0.0500 0.0532 0.0538 106 108 71.0-121 0.0500 0.0514 0.0515 103 103 72.0-120 0.0500 0.0533 0.0535 107 107 76.0-121 0.150 0.168 0.167 112 111 75.0-124 100 100 77.0-120	Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits LCS Qualifier LCSD Qualifier mg/kg mg/kg % % % % 1.0-121 1.0-121 1.0-121 1.0-121 1.0-121 1.0-121 1.0-120 1.0-120 1.0-120 1.0-121







Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) R3330928-3 08/03/18 12:15 • (LCSD) R3330928-4 08/03/18 12:39											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
TPH (GC/FID) Low Fraction	5.50	5.87	5.94	107	108	70.0-136			1.23	20	
(\$) a,a,a-Trifluorotoluene(FID)				106	106	77.0-120					
(\$) a,a,a-Trifluorotoluene(PID)				109	109	75.0-128					

RPD Limits

20

20 20

20

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Velatile Organic Compounds (GC) by Method 8015/8021

L1014209-01

Method Blank (MB)

(MB) R3331329-5 08/06/	18 11:24			
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000190	J	0.000150	0.00500
Ethylbenzene	U	-	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(\$) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120
(§) a.a.a-Trifluorotoluene(PID)	98.5			75.0-128











Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

3 09:39 · (LCSI	D) R3331329-2	08/06/18 10:0	0					
Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD
mg/kg	mg/kg	mg/kg	%	%	%			%
0.0500	0.0463	0.0501	92.6	100	71.0-121			8.00
0.0500	0.0488	0.0524	97.6	105	72.0-120			7.04
0.0500	0.0482	0.0520	96.4	104	76.0-121			7.54
0.150	0.144	0.155	95.7	103	75.0-124			7.38
			93.6	93.8	77.0-120			
			96.0	96.0	75.0-128			
	Spike Amount mg/kg 0.0500 0.0500 0.0500	Spike Amount LCS Result mg/kg mg/kg 0.0500 0.0463 0.0500 0.0488 0.0500 0.0482	Spike Amount LCS Result LCSD Result mg/kg mg/kg mg/kg 0.0500 0.0463 0.0501 0.0500 0.0488 0.0524 0.0500 0.0482 0.0520	mg/kg mg/kg % 0.0500 0.0463 0.0501 92.6 0.0500 0.0488 0.0524 97.6 0.0500 0.0482 0.0520 96.4 0.150 0.144 0.155 95.7 93.6	Spike Amount mg/kg LCS Result mg/kg LCSD Result mg/kg LCSD Rec. LCSD Rec. 0.0500 0.0463 0.0501 92.6 100 0.0500 0.0488 0.0524 97.6 105 0.0500 0.0482 0.0520 96.4 104 0.150 0.144 0.155 95.7 103 93.6 93.8	Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits mg/kg mg/kg % % % 0.0500 0.0463 0.0501 92.6 100 71.0-121 0.0500 0.0488 0.0524 97.6 105 72.0-120 0.0500 0.0482 0.0520 96.4 104 76.0-121 0.150 0.144 0.155 95.7 103 75.0-124 93.6 93.8 77.0-120	Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits LCS Qualifier mg/kg mg/kg % % % % 0.0500 0.0463 0.0501 92.6 100 71.0-121 0.0500 0.0488 0.0524 97.6 105 72.0-120 0.0500 0.0482 0.0520 96.4 104 76.0-121 0.150 0.144 0.155 95.7 103 75.0-124 93.6 93.8 77.0-120	Spike Amount mg/kg LCSD Result mg/kg LCSD Rec. LCSD Rec. Rec. Limits LCS Qualifier LCSD Qualifier 0.0500 0.0463 0.0501 92.6 100 71.0-121







Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3331329-3 08/06	5/18 10:21 · (LCSE	D) R3331329-4	08/06/18 10:4	2						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.47	5.44	99.5	98.9	70.0-136			0.598	20
(\$) a.a.a-Trifluorotoluene(FID)				108	107	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				110	109	75.0-128				

RPD Limits

9/ 20

20

20 20

WG1147714

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1014209-01,02

Method Blank (MB)

(MB) R3330969-1 08/04/18 17:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(\$) a-Ternhenyl	92.4			18 0-148

Semi-Volatile Organic Compounds (GC) by Method 8015









Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

// CEL B222AAGA 2	09/04/10 17:41 // 00/	0 00000000	00/04/10 17:54
(FC2) K3330A6A-5	08/04/18 17:41 • (LCSI	7) K3330909-3	08/04/18 17:54

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
C10-C28 Diesel Range	50.0	39.0	39.4	78.1	78.8	50.0-150			0.966	20
(S) o-Terphenyl				96.0	88.6	18.0-148				













GLOSSARY OF TERMS





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative



55

Cn

SI

QC

Al

Sc

Abbreviations and Definitions

Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. (chrv)

MDI Method Detection Limit

ND Not detected at the Reporting Limit (or MDL where applicable).

DDI Reported Detection Limit. RDL (dry) Reported Detection Limit.

Rec Recovery

Limits

Result

1

RPD Relative Percent Difference. SDG Sample Delivery Group

Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and (5) Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be

detected in all environmental media

11 Not detected at the Reporting Limit (or MDL where applicable).

The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes Analyte

reported.

If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the Dilution

laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the

result reported has already been corrected for this factor.

These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal

for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or

duplicated within these ranges.

The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control Original Sample

sample. The Original Sample may not be included within the reported SDG.

This column provides a letter and/or number designation that corresponds to additional information concerning the result Qualifier reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and

potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect

or report for this analyte.

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will Case Narrative (Cn)

be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or Quality Control analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not Summary (Qc)

being performed on your samples typically, but on laboratory generated material.

This is the document created in the field when your samples were initially collected. This is used to verify the time and Sample Chain of date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This Custody (Sc) chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the

samples from the time of collection until delivery to the laboratory for analysis.

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for Sample Results (Sr)

each sample will provide the name and method number for the analysis reported.

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and Sample Summary (Ss)

times of preparation and/or analysis

Qualifier Description

The identification of the analyte is acceptable; the reported value is an estimate.

Ss

Cn

Sr

Qc

GI

Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conductive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

"Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina 3	41
Georgia 1	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana 1	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT: Enduring Resources PROJECT:

SDG: L1014209 DATE/TIME: 08/08/18/15:35 PAGE:: 13 of 14

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James McDanie Project Description: BGT Clo	1							-							Mount Juliet, TN Phone: 619-758-	5858
Project	***************************************		-	City/State				0							Phone: 800: 767 Fax: 615: 758: 581	
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